

## **PCT REQUEST**

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| 0                | For receiving Office use only                                                                                               |                                                                                                                                                                                                |
|------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0-1              | International Application No.                                                                                               | PCT/EP 0, 3 / 0 2 5 5 0                                                                                                                                                                        |
| 0-2              | International Filing Date                                                                                                   | (12 03. 2003 ) 12 MAR 2003                                                                                                                                                                     |
| 0-3              | Name of receiving Office and "PCT International Application"                                                                | EUROPEAN PATENT OFFICE<br>PCT INTERNATIONAL APPLICATION                                                                                                                                        |
| 0-4              | Form - PCT/RO/101 PCT Request                                                                                               |                                                                                                                                                                                                |
| 0-4-1            | Prepared using                                                                                                              | PCT-EASY Version 2.92 (updated 01.01.2003)                                                                                                                                                     |
| 0-5              | Petition                                                                                                                    | (4544664 01:01:1000)                                                                                                                                                                           |
|                  | The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty |                                                                                                                                                                                                |
| 0-6              | Receiving Office (specified by the applicant)                                                                               | European Patent Office (EPO) (RO/EP)                                                                                                                                                           |
| 0-7              | Applicant's or agent's file reference                                                                                       | P 41997 WO                                                                                                                                                                                     |
| 1                | Title of invention                                                                                                          | ION CONDUCTING COMPOSITE MEMBRANE MATERIALS CONTAINING AN OPTIONALLY MODIFIED ZIRCONIUM PHOSPHATE DISPERSED IN A POLYMERIC MATRIX, METHOD FOR PREPARATION OF THE MEMBRANE MATERIAL AND ITS USE |
| П                | Applicant                                                                                                                   | ·                                                                                                                                                                                              |
| 11-1             | This person is:                                                                                                             | applicant only                                                                                                                                                                                 |
| II-2             | Applicant for                                                                                                               | all designated States except US                                                                                                                                                                |
| 11-4             | Name                                                                                                                        | FuMa-Tech GmbH                                                                                                                                                                                 |
| II-5             | Address:                                                                                                                    | Am Grubenstollen 11<br>D-66386 St. Ingbert/Saar<br>Germany                                                                                                                                     |
| 11-6             | State of nationality                                                                                                        | DE                                                                                                                                                                                             |
| 11-7             | State of residence                                                                                                          | DE                                                                                                                                                                                             |
| 111-1            | Applicant and/or inventor                                                                                                   |                                                                                                                                                                                                |
| 111-1-1          | This person is:                                                                                                             | applicant and inventor                                                                                                                                                                         |
| 111-1-2          | Applicant for                                                                                                               | US only                                                                                                                                                                                        |
| III-1-4          | Name (LAST, First)                                                                                                          | BAUER, Bernd                                                                                                                                                                                   |
| III-1-5          | Address:                                                                                                                    | Hildenstrasse 10                                                                                                                                                                               |
|                  |                                                                                                                             | D-71665 Vaihingen an der Enz                                                                                                                                                                   |
|                  |                                                                                                                             | Germany                                                                                                                                                                                        |
| III- <u>1</u> -6 | State of nationality                                                                                                        | DE                                                                                                                                                                                             |
| III-1-7          | State of residence                                                                                                          | DE                                                                                                                                                                                             |

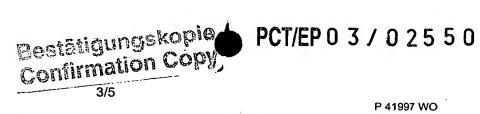
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| III-2                | Applicant and/or inventor               |                               |
|----------------------|-----------------------------------------|-------------------------------|
| III-2-1              | This person is:                         | applicant and inventor        |
| 111-2-2              | Applicant for                           | US only                       |
| III-2 <del>-</del> 4 | Name (LAST, First)                      | ROZIERE, Jacques              |
| III-2-5              | Address:                                | 58 Avenue d'Occitanie         |
|                      |                                         | F-34090 Montpellier           |
|                      |                                         | France                        |
| 111-2-6              | State of nationality                    | FR                            |
| 111-2-7              | State of residence                      | FR                            |
| 111-3                | Applicant and/or inventor               |                               |
| III-3-1              | This person is:                         | applicant and inventor        |
| 111-3-2              | Applicant for                           | US only                       |
| 111-3-4              | Name (LAST, First)                      | JONES, Deborah                |
| III-3-5              | Address:                                | 58 Avenue d'Occitanie         |
|                      |                                         | F-34090 Montpellier           |
|                      |                                         | France                        |
| 111-3-6              | State of nationality                    | FR                            |
| 111-3-7              | State of residence                      | FR                            |
| 111-4                | Applicant and/or inventor               |                               |
| III <b>-4</b> -1     | This person is:                         | applicant and inventor        |
| 111-4-2              | Applicant for                           | US only                       |
| 111-4-4              | Name (LAST, First)                      | ALBERTI, Giulio               |
| III <del>-4</del> -5 | Address:                                | Via Torelli 67                |
|                      |                                         | I-06123 Perugia               |
|                      |                                         | Italy                         |
| III-4-6              | State of nationality                    | IT                            |
| III-4-7<br>          | State of residence                      | IT                            |
| 111-5                | Applicant and/or inventor               |                               |
| III-5-1              | This person is:                         | applicant and inventor        |
| 111-5-2              | Applicant for                           | US only                       |
| 111-5-4              | Name (LAST, First)                      | CASCIOLA, Mario               |
| 111-5-5              | Address:                                | Via Cortonese 74/A            |
|                      |                                         | I-06123 Perugia               |
| 111-5-6              | State of a diameter                     | Italy                         |
|                      | State of nationality                    | IT                            |
| III-5-7              | State of residence                      | IT                            |
| III-6<br>III-6-1     | Applicant and/or inventor               |                               |
|                      | This person is:                         | applicant and inventor        |
| III-6-2              | Applicant for                           | US only                       |
| III-6-4              | Name (LAST, First)                      | PICA, Monica                  |
| III-6-5              | Address:                                | Fraz. Morano Madonnuccia 37/A |
|                      |                                         | I-06123 Gualda Tadino         |
| III-6-6              | State of nationality                    | Italy                         |
| III-6-7              | State of nationality State of residence | IT                            |
|                      | State of residence                      | IT                            |



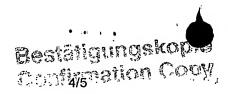
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| IV-1   | Agent or common representative; or address for correspondence                 |                                                    |
|--------|-------------------------------------------------------------------------------|----------------------------------------------------|
|        | The person identified below is hereby/has been appointed to act on            | agent                                              |
|        | behalf of the applicant(s) before the competent International Authorities as: |                                                    |
| IV-1-1 | Name                                                                          | Patentanwälte Ruff, Wilhelm, Beier,                |
|        |                                                                               | Dauster & Partner; Association No. 16              |
| IV-1-2 | Address:                                                                      | Kronenstr. 30                                      |
|        |                                                                               | D-70174 Stuttgart                                  |
|        |                                                                               | Germany                                            |
| IV-1-3 | Telephone No.                                                                 | 0711/ 228110                                       |
| IV-1-4 | Facsimile No.                                                                 | 0711 / 2201122                                     |
| IV-1-5 | e-mail                                                                        | mail@kronenpat.de                                  |
| v      | Designation of States                                                         | amazzeni onenpac. de                               |
| V-1    | Regional Patent                                                               | AP: GH GM KE/LS/MW/MZ/SD/SL/SZ/TZ/UG,ZMV           |
|        | (other kinds of protection or treatment, if any, are specified between        | ZW/and any other State which is a                  |
|        | parentheses after the designation(s)                                          | Contracting State of the Harare Protocol           |
|        | concerned)                                                                    | and of the PCT                                     |
|        |                                                                               | EA: AM_AZ/BY_KG_KZ_MD_RU_TJ_TM_and any             |
|        |                                                                               | other State which is a Contracting State           |
|        |                                                                               | of the Eurasian Patent Convention and of           |
|        |                                                                               | the PCT                                            |
| •      |                                                                               | EP: AT/BE/BG/CH&LL/CY/CZ/DE/DK/EE/ES/FI/           |
|        |                                                                               | FRVGB VSR HUVIEW ITVLUMMCVNL/PTVSEVSIVSK/          |
|        |                                                                               | TR and any other State which is a                  |
|        |                                                                               | Contracting State of the European Patent           |
|        |                                                                               | Convention and of the PCT                          |
|        |                                                                               | OA: BE/BJ/CF CG CI/CM/GA/GN/GQ/GW/MD/MR/           |
|        |                                                                               | NEVSN/TD/TG and any other State which is           |
|        |                                                                               | a member State of OAPI and a Contracting           |
|        |                                                                               | State of the PCT                                   |
| /-2    | National Patent (other kinds of protection or treatment,                      | AE AG AL AN AT AU AZ BA BB BG BR BY BZ             |
|        | if any, are specified between                                                 | CAI CH&LI CNJCO/ CRYCUVCZ DE DK VDM VDZVECV        |
|        | parentheses after the designation(s) concerned)                               | EEVESVFIVGBVGDVGEVGHVGMVHRVHUVIDVILVINV            |
|        |                                                                               | IS/ JP/ KE/ KG/KR/ KR/ KZ/ LC/ LK/ LR/ LS/ LT/ LU/ |
|        |                                                                               | LW/MA/MD/MG/MK/MN/MW/MX/MZ/NIVNO/NZ/OM/            |
|        |                                                                               | PH_PLVPTVROVRU_SCVSD\SEVSGVSK/SLVTJ\TMV            |
|        |                                                                               | TN/TR/TT/TZ/UA/UG/US/UZ/VC/VN/YU/ZA/ZM/            |
|        |                                                                               | ZW /                                               |



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| V-5     | <b>Precautionary Designation Statement</b>                                                                    |                            |                             |
|---------|---------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|
|         | In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) |                            |                             |
|         | all designations which would be                                                                               |                            |                             |
|         | permitted under the PCT except any                                                                            |                            |                             |
|         | designation(s) of the State(s) indicated under item V-6 below. The applicant                                  |                            |                             |
|         | declares that those additional                                                                                |                            |                             |
|         | designations are subject to confirmation                                                                      |                            |                             |
|         | and that any designation which is not confirmed before the expiration of 15                                   |                            |                             |
|         | months from the priority date is to be                                                                        |                            |                             |
|         | regarded as withdrawn by the applicant at the expiration of that time limit.                                  |                            |                             |
| V-6     | Exclusion(s) from precautionary                                                                               | NONE                       |                             |
|         | designations                                                                                                  |                            |                             |
| VI-1    | Priority claim of earlier national application                                                                |                            | •                           |
| VI-1-1  | Filing date                                                                                                   | 13 March 2002 (13.03       | 2002)                       |
| VI-1-2  | Number                                                                                                        |                            | .2002)                      |
| VI-1-3  | Country                                                                                                       | PG 2002 A 0013             |                             |
| VII-1-5 |                                                                                                               | IT                         |                             |
| VII-1   | International Searching Authority Chosen                                                                      | European Patent Offi       | ce (EPO) (ISA/EP)           |
| VIII    | Declarations                                                                                                  | Number of declarations     |                             |
| VIII-1  | Declaration as to the identity of the inventor                                                                | -                          |                             |
| VIII-2  | Declaration as to the applicant's                                                                             | -                          |                             |
|         | entitlement, as at the international filing                                                                   |                            |                             |
|         | date, to apply for and be granted a patent                                                                    |                            |                             |
| VIII-3  | Declaration as to the applicant's                                                                             | -                          |                             |
|         | entitlement, as at the international filing date, to claim the priority of the earlier                        |                            |                             |
|         | application                                                                                                   |                            |                             |
| VIII-4  | Declaration of inventorship (only for the                                                                     | -                          |                             |
|         | purposes of the designation of the United States of America)                                                  |                            |                             |
| VIII-5  | Declaration as to non-prejudicial                                                                             | -                          |                             |
|         | disclosures or exceptions to lack of                                                                          |                            |                             |
| IX      | novelty Check list                                                                                            | number of sheets           | electronic file(s) attached |
| IX-1    | Request (including declaration sheets)                                                                        | 5                          | -                           |
| IX-2    | Description                                                                                                   | 16                         | -                           |
| IX-3    | Claims                                                                                                        | 5                          | -                           |
| IX-4    | Abstract                                                                                                      | 1                          | EZABST00.TXT                |
| IX-5    | Drawings                                                                                                      | 9                          | -                           |
| IX-7    | TOTAL                                                                                                         | 36                         |                             |
|         | Accompanying items                                                                                            | paper document(s) attached | electronic file(s) attached |
| IX-8    | Fee calculation sheet                                                                                         | <b>✓</b>                   | -                           |
| IX-17   | PCT-EASY diskette                                                                                             | _                          | Diskette                    |
| IX-19   | Figure of the drawings which should accompany the abstract                                                    |                            |                             |
| IX-20   | Language of filing of the international application                                                           | English                    |                             |

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| X-1   | Signature of applicant, agent or |                                       |
|-------|----------------------------------|---------------------------------------|
|       | common representative            |                                       |
|       |                                  |                                       |
| X-1-1 | Name                             | Patentanwälte Ruff, Wilhelm, Beier,   |
|       |                                  | Dauster & Partner; Association No. 16 |
| X-1-2 | Name of signatory                | Dr. Michael Ruff                      |
| X-1-3 | Capacity                         | Patent Attorney                       |

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| 10-1   | Date of actual receipt of the purported international application                                                                       | 1 2 MAR 2003   |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 10-2   | Drawings:                                                                                                                               | 1-2. 03. 200.) |
| 10-2-1 | Received X                                                                                                                              | /              |
| 10-2-2 | Not received                                                                                                                            | •              |
| 10-3   | Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application |                |
| 10-4   | Date of timely receipt of the required corrections under PCT Article 11(2)                                                              |                |
| 10-5   | International Searching Authority                                                                                                       | ISA/EP         |
| 10-6   | Transmittal of search copy delayed until search fee is paid                                                                             |                |

## FOR INTERNATIONAL BUREAU USE ONLY

| 11-1 | Date of receipt of the record copy by |   |
|------|---------------------------------------|---|
|      | the International Bureau              | , |
|      |                                       |   |